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1	BRS	L1	1475	(hybrid or combin\$5 or mix\$5 or merg\$3) near10 (supervis\$3 or unsupervis\$3 or nonsupervis\$3)	USPAT; EPO; JPO; DERWEN T	2005/09/08 11:05	
2	BRS	L2	31	1 same class\$8	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:27	
3	BRS	L3	7	2 same (cluster\$3 or group\$5)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:27	
4	BRS	L4	2	3 same map\$5	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:28	
5	BRS	L5	186	supervis\$3 same unsupervis\$3 same class\$9	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:31	

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6	BRS	L6	30	5 same (hybrid or combin\$5 or mix\$5 or merg\$3)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:29	
7	BRS	L7	12	6 and map\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:29	
8	BRS	L8	8	7 and (probabil\$5 or likelihood)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:31	
9	BRS	L9	34	(class\$9 near4 (probabilit\$4 or likelihood\$1) near5 map\$1)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:31	
10	BRS	L10	1	5 and 9	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:44	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
11	BRS	L11	927	(incorporat\$4 or hybrid or combin\$5 or mix\$5 or merg\$3) near3 (supervis\$3 or unsupervis\$3 or nonsupervis\$3)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:35	
12	BRS	L12	28	11 same class\$9	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:35	
13	BRS	L14	6	12 same (cluster\$3 or group\$5 or categor\$9)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:36	
14	BRS	L13	1	12 same (region\$1 or area\$1)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:41	
15	BRS	L15	34	(number\$1 near2 cluster\$1) same unsuperv\$4	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:44	

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16	BRS	L16	1	15 same probabil\$5	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:45	
17	BRS	L17	89	unsupervis\$3 and (probabil\$5 near2 model\$1)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:46	
18	BRS	L18	5	17 and (cluster\$3 near5 (probabil\$5 near2 model\$1))	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:50	
19	BRS	L19	0	cluster\$1 same imag\$3 same assign\$6 same unsupervis\$3 same model\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:51	
20	BRS	L20	3	cluster\$1 same imag\$3 same unsupervis\$3 same model\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:52	

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21	BRS	L21	2884	probabil\$5 near\$3 model\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:52	
22	BRS	L22	12	21 same unsuperv\$5	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:53	
23	BRS	L23	5	12 same cluster\$3	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:54	
24	BRS	L24	25	label\$3 same class\$9 same densit\$3 same model\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:55	
25	BRS	L25	0	24 same supervis\$3	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:55	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
26	BRS	L26	8	24 and supervis\$3	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:56	
27	BRS	L27	101	21 same cluster\$1	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:56	
28	BRS	L29	36	27 same ((number\$1 or one or two or three) near3 cluster\$3)	USPAT; EPO; JPO; DERWEN T	2005/09/08 10:58	
29	BRS	L30	0	29 same unsupervis\$3	USPAT; EPO; JPO; DERWEN T	2005/09/08 11:03	
30	IS&R	L31	884	(382/159,224,225,228) .CCLS.	USPAT	2005/09/08 11:04	
31	IS&R	L32	472	(706/20) .CCLS.	USPAT	2005/09/08 11:05	

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32	BRS	L33	934	(incorporat\$4 or hybrid or combin\$5 or mix\$5 or merg\$3) near\$4 (supervis\$3 or unsupervis\$3 or nonsupervis\$3)	USPAT	2005/09/08 11:09	
33	BRS	L34	79	33 same (class\$9 or cluster\$3 or group\$4 or categor\$6)	USPAT	2005/09/08 11:10	
34	BRS	L35	7	34 same (region\$1 or area\$1 or section\$1)	USPAT	2005/09/08 11:08	
35	BRS	L36	3	31 and 34	USPAT	2005/09/08 11:09	
36	BRS	L37	958	(fus\$4 or incorporat\$4 or hybrid or combin\$5 or mix\$5 or merg\$3) near\$4 (supervis\$3 or unsupervis\$3 or nonsupervis\$3)	USPAT	2005/09/08 11:10	
37	BRS	L38	80	37 same (class\$9 or cluster\$3 or group\$4 or categor\$6)	USPAT	2005/09/08 11:10	
38	BRS	L39	25	38 and probab\$5	USPAT	2005/09/08 11:10	
39	BRS	L40	15	39 and map\$1	USPAT	2005/09/08 11:12	
40	BRS	L41	235	31 and "80"	USPAT	2005/09/08 11:12	
41	BRS	L42	114	32 and "80"	USPAT	2005/09/08 11:13	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
42	BRS	L43	16	41 and (probabil\$4 near3 (map\$1 or model\$1))	USPAT	2005/09/08 11:14	
43	BRS	L44	0	41 and (probabil\$4 near3 (map\$1 or model\$1) near10 cluster\$3)	USPAT	2005/09/08 11:14	


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» Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ **1. Robust classifiers by mixed adaptation**
Gutfinger, D.; Sklansky, J.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
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- ☐ **2. A common neural-network model for unsupervised exploratory data analysis: independent component analysis**
Girolami, M.; Cichocki, A.; Amari, S.I.;
Neural Networks, IEEE Transactions on
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- ☐ **3. Mining new protein-protein interactions**
Mamitsuka, H.;
Engineering in Medicine and Biology Magazine, IEEE
Volume 24, Issue 3, May-June 2005 Page(s):103 - 108
Digital Object Identifier 10.1109/MEMB.2005.1436467
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- ☐ **4. Mixture models for co-occurrence and histogram data**
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Pattern Recognition, 1998. Proceedings. Fourteenth International Conference on
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Rogers, S.; Girolami, M.; Campbell, C.; Breitling, R.;
Computational Biology and Bioinformatics, IEEE/ACM Transactions on
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- ☐ **6. A hierarchical mixture of Markov models for finding biologically active molecules**

using gene expression and protein classes

Mamitsuka, H.; Okuno, Y.;
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Digital Object Identifier 10.1109/ICCV.2003.1238368

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☐ **8. Bayesian clustering of optical flow fields**

Hoey, J.; Little, J.J.;
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13-16 Oct. 2003 Page(s):1086 - 1093 vol.2

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☐ **9. A unified unsupervised clustering algorithm and its first application to lai classification**

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☐ **10. Separating appearance from deformation**

Jojic, N.; Simard, P.; Frey, B.J.; Heckerman, D.;
Computer Vision, 2001. ICCV 2001. Proceedings. Eighth IEEE International C
Volume 2, 7-14 July 2001 Page(s):288 - 294 vol.2
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Volume 2, 23-25 June 1999 Page(s):
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☐ **13. Computational Intelligence based machine fault diagnosis**

Wang, D.D.; Debing Yang; Jinwu Xu; Ke Xu;
Industrial Technology, 1996. (ICIT '96), Proceedings of The IEEE International
2-6 Dec. 1996 Page(s):465 - 469
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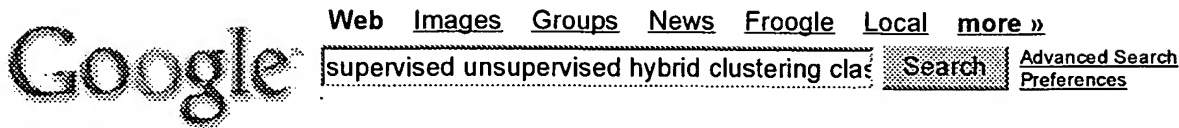
- ☐ **14. Learning in neural networks with Bayesian prototypes**
Myllymaki, P.; Tirri, H.;
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classification, migrating means **clustering classification** the hybrid ... The **hybrid supervised/unsupervised classification** combines the advantages ...

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IRIDIA Projects

The task of **supervised classification** is classifying new objects (or cases) into predefined ... In the case of **unsupervised classification** (or **clustering**), ...

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Image Classification: Examples

The information can be used to label the **clusters** relative to the class ...

This is an example of a **hybrid supervised/unsupervised** type of **classification**. ...

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Unsupervised Classification. **Supervised classification** ... becomes the first **cluster center**. **Hybrid Classification**. **Unsupervised** training areas are selected ...

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Semi-Supervised Learning

Face recognition using a **hybrid supervised/unsupervised** neural network. ...

Clustering unlabeled data with soms improves **classification** of labeled real-word ...

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[PDF] **Use of a hybrid supervised and unsupervised classification model ...**

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hybrid supervised and unsupervised classification method is ... classes (ie **clusters**) using the training data selected from the ...

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ABOUT THE DATA

The **Hybrid Supervised/Unsupervised** Approach to image **classification** ... Step 1:

Use **Clustering** to determine the spectral classes into which the image ...

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identification (**unsupervised**). a posteriori. **Supervised classification**: ...

Hybrid approach: **unsupervised** to detect representative **clusters**, ...

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Unsupervised classification only considers the taxonomic relationship between attribute ... An improved **hybrid clustering** algorithm for. natural scenes. ...

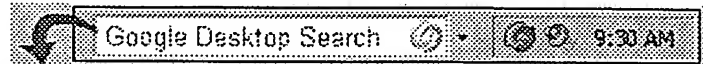
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Contemporary Report

Step 3: Run **hybrid supervised/unsupervised** categorization. Use a '**supervised**' **clustering** algorithm, such as maximum likelihood, to create a revised **cluster** ...

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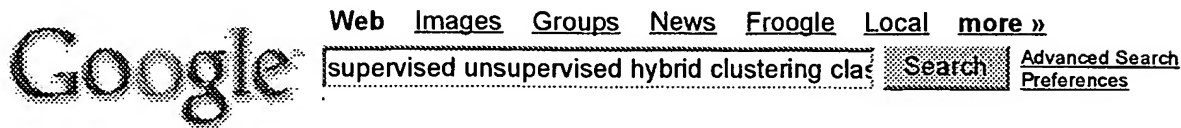
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... learning is effected by both **supervised** and **unsupervised** techniques. ...
neurons move to **clusters** of poor **classification**, thus alleviating the problem ...

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Digital Classification of LANDAST TM for Land Cover Mapping of the ...

This approach, commonly termed **hybrid classification**, involves elements of both **unsupervised** and ... **Supervised** approach, **Unsupervised**, **Modified Clustering** ...

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Adaptable Class Data Representation for Hyperspectral Image ...

Keywords: Hyperspectral, **Classification**, **Clustering**, Data Representation, ...
clusters to an information class, a **hybrid supervised** and **unsupervised** ...

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sifiers, **Clustering**. 1 Introduction. **Supervised** learning is a lot easier than **unsupervised** ... the use of any **unsupervised** or **supervised classification** ap- ...

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CFP: Workshop on Probabilistic Graphical Models for Classification ...

sinergies between **supervised** and **unsupervised probabilistic classification** ...
probabilistic graphical models for **supervised classification** and **clustering** ...

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A **hybrid supervised/unsupervised classification**. methodology was used. ...

Definition of Initial **Clusters**: In **unsupervised** classifications, ...

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Hybrid Neural Document Clustering Using Guided Self-Organization ...

In contrast, document **classification** is usually considered a **supervised** learning

... Figure 1 shows our **hybrid** neural document **clustering** framework. ...

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IEEE Intelligent Systems, March/April 2004 (Vol. 19, No. 2)

The **supervised classification** approach often achieves greater accuracy than the ...
... "Hybrid Neural Document Clustering Using Guided Self-Organization and ...

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[PDF] **AM Bagirov, AM Rubinov, NV Soukhoroukova and J. Yearwood ...**

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hybrid approach where the GA is used to find good initial **cluster** centres ...

Unsupervised and **Supervised Data Classification**. 27. bers of **clusters** and ...

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... an **unsupervised classification** method was used to **cluster** the web documents

... Hence, we employed a **hybrid** approach which combined **supervised** learning ...

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